515 Both men, women took sweat baths, women usually sweat bathing at night, before the men, "every day" (PN), "once in awhile" (SM), "whenever they wanted to" (FP). After bathing women jumped in cold water, "the same as men" (FP). [841] Men, women did not bathe together, nor did woman enter sweat house during menstrual period. Boys had to be "over 14" (PN), "about 16" (SM), to be able to stand sweat bathing; girls "about 14." There was no ceremonial significance attached to boy's or girl's first sweat bath and from early childhood children allowed to romp around inside sudatory at will when it was not in use. Adults used sweat house almost daily; sweat bathing caused one to feel "light" and "good" (FP, SM). Men and women were wont to sing when taking sweat baths which lasted, for men at least, as long as 3 hours; men took such baths in evening, sometimes after breakfast as well. While they [276] sweated, men, women smoked sparingly or chewed [342] tobacco mixed with lime. Sometimes single men, widowers, or very old men used sweat house as sleeping quarters (SM); this denied by FP. Married men always slept with their wives, however [524] (above). Hand games never played in sweat house, [171] although informants aware Owens Valley Paiute utilized their sweat houses for this; PN said [535] dances sometimes held in sudatory, but all other informants denied this; possibly PN's statement reflects Palagewan custom, as opposed to that of [276] Tübatulabal. Jimsonweed administered to small groups in sweat house (p. 5). Sudatories no [177] longer used by Tübatulabal and ruins of only one such known to me (pl. 6a); this was on Bloomfield ranch near small flat on W side of South Fork r., close to village site no. 4 (fig. 11). Entrance to this house faced E.

349 Ceremonial brush enclosure.- For dances, round
527 brush enclosure (ho·yat, also used for brush en-
535 closure at piñon grounds), with walls of willow and brush 5-6 ft. high and single entrance on NE side, built; this similar to piñon-camp enclosure (above). Visitors from different localities who were attending dance were assigned places to camp within wall of enclosure; fire built in center and dancing done around this fire (see fig. 15, p. 69). Such enclosures made by adolescent boys at order of dance manager, and appear to have been used more by Tübatulabal than Palagewan, latter using flat-topped shade with sides (above) for camping purposes during fiestas. Covered dance house did not occur.

MEANS OF TRANSPORT

481 All traveling accomplished on foot; burdens
482 of all varieties, from firewood to babies, packed
492 on back; dogs not used for transport. Streams
501 crossed by swimming; rafts known, but used only for fishing.

352 deer sinew (tohi·lĭŋ tapn); all bars except bot-
854 tom one bound on underside of frame. Second specimen (1-28571) measures 43 in. overall, 35 in. from crotch to top; has 10 crossbars, nailed to frame as above; both specimens made and used by SWN. Both these cradles lack hood (ku·man); formerly tule hood, narrow at sides where it was fastened to cradle near top, and wider across central section, would have been attached to such cradle (SM, FP); strings of beads, which served to amuse child, depended from hood. Child
[482] lay on tule mat, wrapped in wildcatskin, tied down with native twine. Woman packed cradle on back, using pack strap; when she arrived at destination she leaned cradle up against tree or boulder, in shade, planting sharpened end of forked-stick frame in ground.

301 Sex of child occupying cradle not indicated
352 by any sort of decoration on either type of
562 cradle (all informants); repeated questioning on this point always brought negative response.

●501 Rafts and ferriage; horses.- Large green
226 tules (ši'i·bĭ·l), Scirpus acutus Muhl., from 6-8 ft. long, were tied with native twine into bundles of 4; these bundles were laid side by side and lashed together with native rope to make raft (ni·ht) 6-8 ft. long, 6 ft. wide (SM). This raft was square at both ends and not built
[221] up on sides; could carry 2 men and was used for spearing large fish on smooth stretches of Kern r. or on former lakes in South Fork valley, during winter only. Such raft serviceable only so long as tules remained wet; when tules dried out, raft became leaky, was discarded. Single individuals made such, but any man might use raft; when not in use, rafts kept drawn up on river bank.

Willow pole 6-7 ft. long, 2-3 in. in diameter, pointed at one end, used to propel raft. Man doing poling either stood or sat, shifting pole from one hand to other, while second man speared fish.

501 Kroeber mentions "balsas of bundled tules,
481 with a keel, a slender prow, and a square stern, (which) were made" by Tübatulabal (Handbook, 608); this information evidently based on Powers' statement (Powers, 393), obtained from widely-traveled Tübatulabal named Chico at Tule River reservation (Powers, 394). None of my informants knew anything about craft such as Powers describes. Garcés "supplicated [the Indians] that they should make a raft" to take him across unaugmented Kern, "and they answered me that they knew not [how to do so]. They conveyed me across between four of them by swimming, two taking me by the arms, and the other two by the body" (Garcés, 281). Garcés' statements accord with PN's assertion that goods or young children were ferried across large streams on men's backs, and
[221] SM's that men, women, children were all good swimmers, and that tule rafts were used only in winter, for very specialized purpose. Pots, large

501 481 231 492 baskets not used for ferrying; breast stroke used chiefly in swimming (SM).
Horses mounted on right side; bridles made of native twine, saddles of tules.

WEAPONS

411 Bow chief weapon; spears may have been used in warfare; clubs not used, "because men didn't get that near to each other when they fought" (SM); spear thrower, shield, armor not used; aboriginal use of slings denied.

Bow.- Both for war and hunting large game, used sinew-backed bow (a·lit tupani·l), made from juniper (wa·dul), Juniperus californica Carr., var. utahensis Engelm., foothill floral area; bows also occasionally made from tamarack (iŝwa'adul). Such bows were "hard to make," and "took a long time to shape" with flint knives; furthermore one could not "get a good piece of wood for a bow every day" (SM, ES). Method of manufacture was to select suitable piece of wood, cut it, peel bark off immediately and shave bow into shape with knife, then warm bow in hot ashes or hold it over fire and flatten 2 ends over knee. Next, cord tied taut from one end to other, over back of bow, thus bowing length of wood in arc opposite to that in which it would bow when used. Tied thus, bow left to season for 6-8 days; was then untied and 2 1/2-in.-wide strip of water-wetted sinew (tupani·l), from backbone of deer, glued on to back of bow and overlapping edges glued down on sides. At 2 ends of bow, ends of sinew backing wrapped around wood several times to form knobs which prevented bowstring from slipping; neither end of bow notched for stringing. After sinew had dried, bow wrapped at grip (po·ho·nil) with strip of buckskin. Bowstring (piho·lit) of sinew, 3-ply, rolled into cord on knee (SM). Sinew-backed bows were some 48 in. long, 2 in. wide, 1/2-3/4 in. thick at grip; back and under side flattened, edges rounded; ends about 1 in. wide, 1/4 in. thick and either slightly re-bowed, or straight.

For hunting small game plain bow (a·lit) with rounded edges, made either of willow or juniper, used. Bowstring for such made from native twine. SM said such bows were about 45 in. long, 2 in. wide at grip; specimen 1-19808, of willow, is 50 in. long. In 1932, FC had willow bow he had made, which MM said was similar to bows TÜbatulabal used formerly for shooting rabbits; FC had made his from green willow, first shaping it with knife, then bowing it in at grip by laying length of willow on 2 flat rocks which were set some 16 in. apart, so when weight was put on top of central section of willow it bowed downward between the 2 rocks. Ends were rebowed by placing flat rocks beneath and on top of each tip and suspending rock from underneath unfinished bow at points 8 in. inward from ends. Thus weighted, bow was left to dry and season for 8 days. Length of this

4: Kroeber E-5 (no date)1925 NS22 Tübatulabal NS22
Yokuts NS29

of these terms to wider groups. Thus the "Yokol" of the Tübatulabal seem to have included also the Gawia and Kadanchi, and perhaps other tribes.

The Tübatulabal of to-day may aggregate 150. Perhaps the number is nearer 100. On the ancient population there are no data. A thousand seems as reasonable a guess as any other: at least it appears ample.

ARTS.

The Tübatulabal are one of the seemingly endless number of California tribes whose customs have never been described in any detail. Intercourse and intermarriage between them and the Yokuts were so frequent that they must have been strongly influenced by this much larger nation.

Their basketry is scarcely distinguishable from that of the southern Yokuts; it appears to average a little better in fineness. Tree yucca root replaced *Cercis* bark for red patterns. They made pottery of the same type as the Yokuts. Like these people, they ate tobacco mixed with lime. Their houses, or at least one form of dwellings, were covered with tule mats.

It is not certain that they had any form of sweat house: what may be remains of such have been reported. Balsas of bundled tules, with a keel, a slender prow, and a square stern, were made.

The dead were buried.

SOCIETY.

In their social life they stood more apart. The exogamous moieties of the Yokuts were not represented among them. There are possible traces of the totemic manifestations that accompany this dual organization. Young eagles were caught and reared. They were not killed, but were ultimately liberated. The plucking of their feathers seems to have been only a minor end of their captivity. Other birds, such as condors, crows, hawks, and geese, and even young coyotes, were kept as pets; in some cases inherited by the son from the father. In mythology the eagle is the chief, the coyote his antithesis; one has as associates a variety of birds, the other lizards, vermin, and trivial or noxious beasts.

In some matters Yokuts practices have failed to obtain a foothold, or a secure one, among the Kern River people. The parent-in-law taboos are not observed, or only by those individuals intimately associated with the Yokuts by intermarriage. This factor, incidentally, has introduced a number of Yokuts personal names among the Tübatulabal, who care very little whether an individual's appellation has any meaning as long as it is the name of an ancestor. The designation of kindred is almost identical with that of the Kawaiisu, and